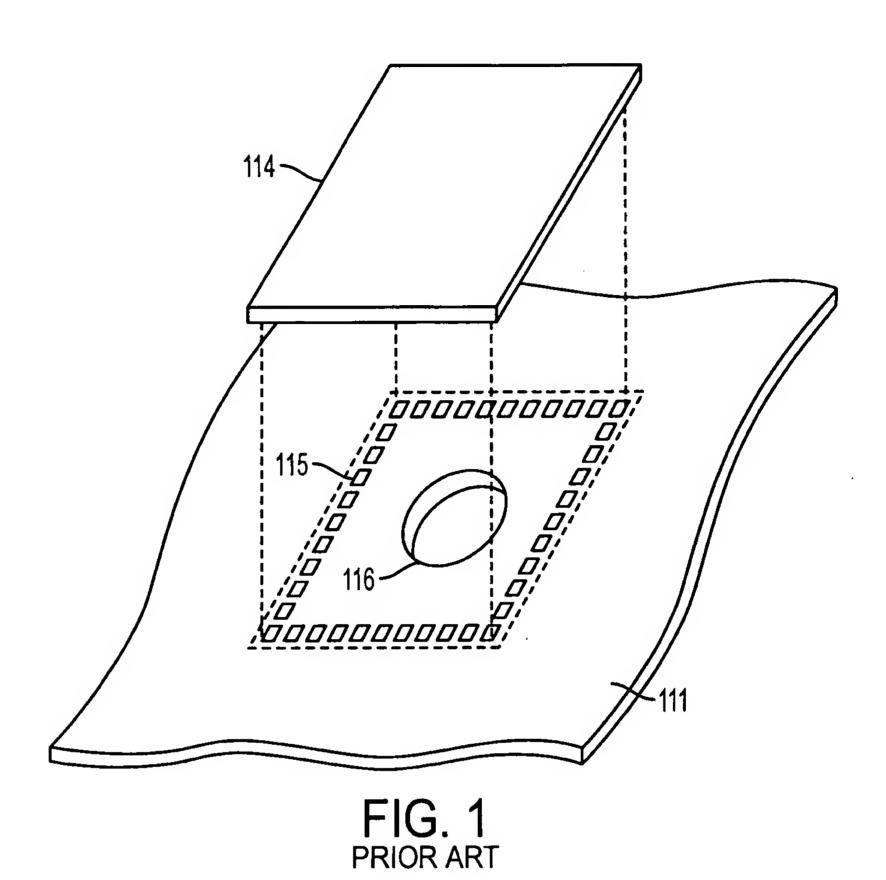
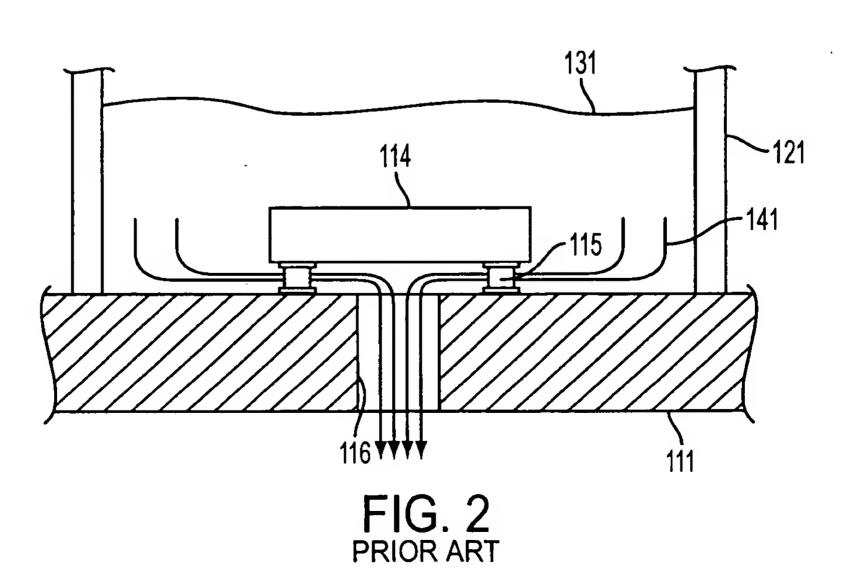
Motoaki MATSUDA
FLIP-CHIP BGA SEMICONDUCTOR DEVICE ...

U.S. Appln. No.: 10/659,379
Filed September 11, 2003
Group Art Unit: 2818
Atty. Docket No.: Q77402
Replacement Sheet 1 of 6







Motoaki MATSUDA FLIP-CHIP BGA SEMICONDUCTOR DEVICE ...

U.S. Appln. No.: 10/659,379
Filed September 11, 2003
Group Art Unit: 2818
Atty. Docket No.: Q77402
Replacement Sheet 2 of 6

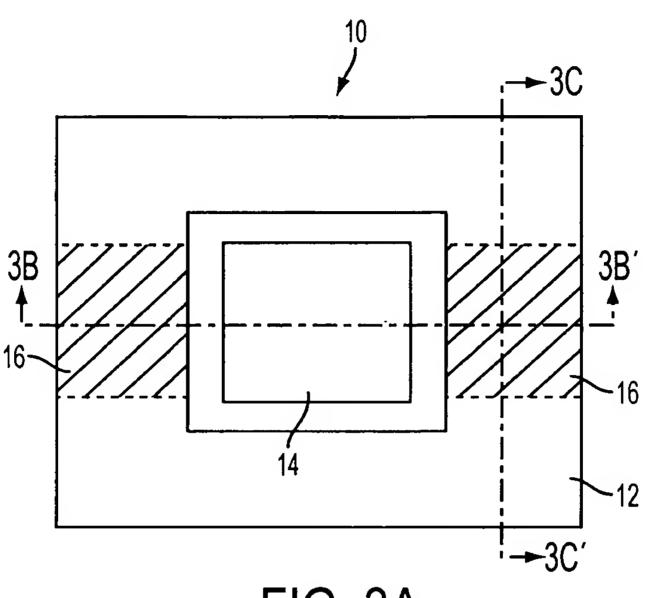
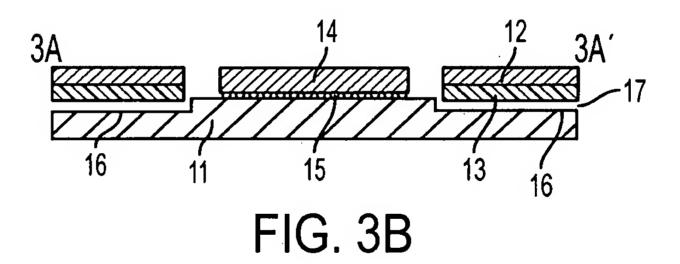


FIG. 3A



3B 12 13 3B'

FIG. 3C

Motoaki MATSUDA FLIP-CHIP BGA SEMICONDUCTOR DEVICE ... U.S. Appln. No.: 10/659,379

Filed September 11, 2003
Group Art Unit: 2818
Atty. Docket No.: Q77402
Replacement Sheet 3 of 6

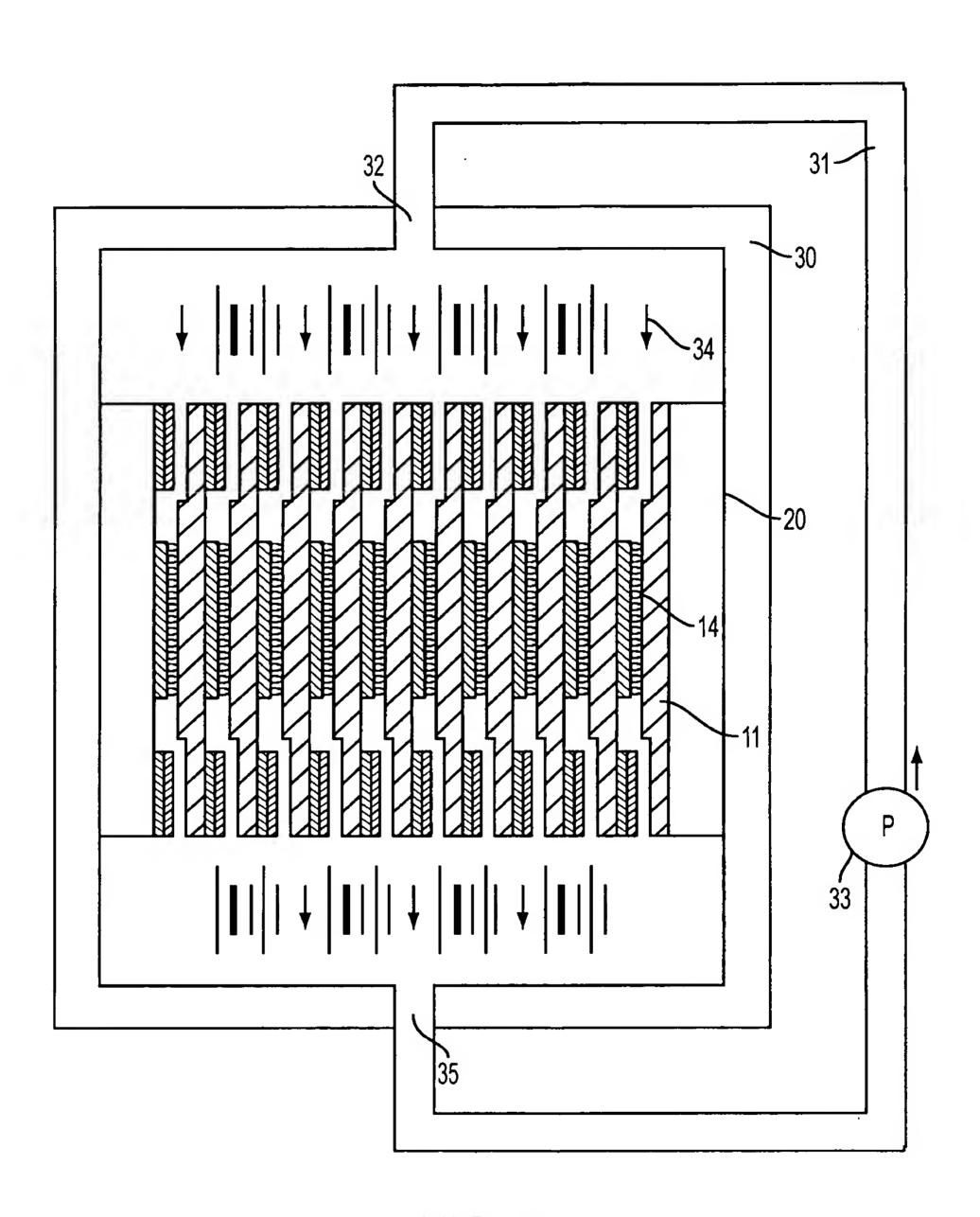


FIG. 4

Motoaki MATSUDA FLIP-CHIP BGA SEMICONDUCTOR DEVICE ...

U.S. Appln. No.: 10/659,379
Filed September 11, 2003
Group Art Unit: 2818
Atty. Docket No.: Q77402
Replacement Sheet 4 of 6

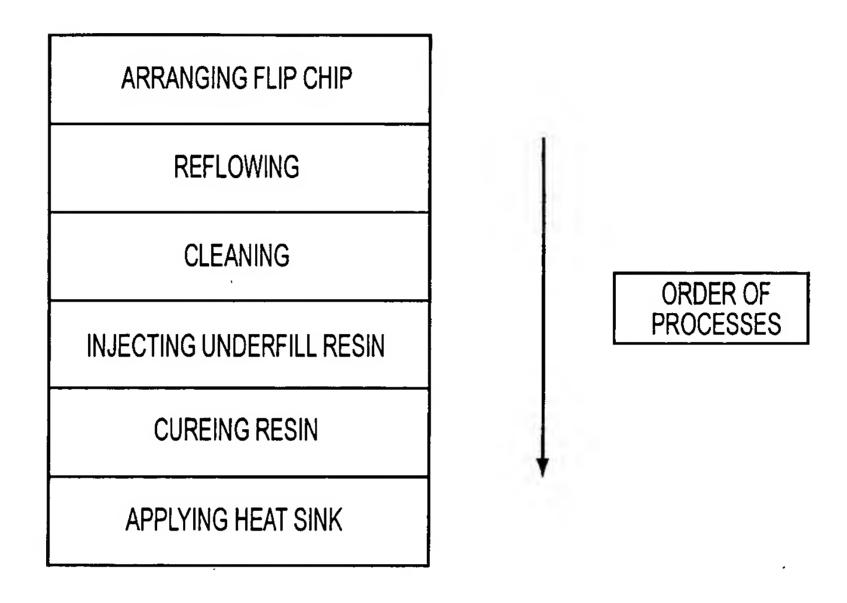


FIG. 5

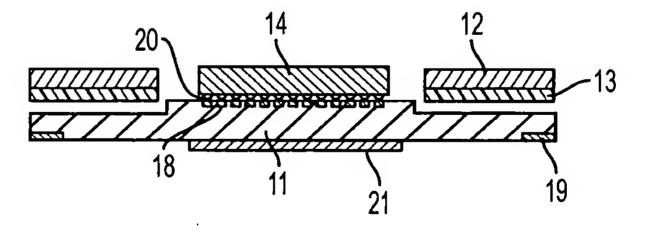


FIG. 6

Motoaki MATSUDA

FLIP-CHIP BGA SEMICONDUCTOR DEVICE ...
U.S. Appln. No.: 10/659,379
Filed September 11, 2003
Group Art Unit: 2818
Atty. Docket No.: Q77402
Replacement Sheet 5 of 6

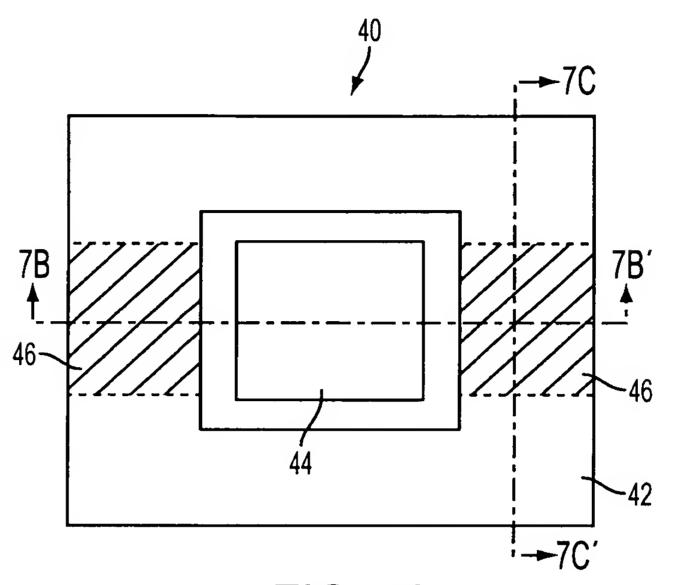
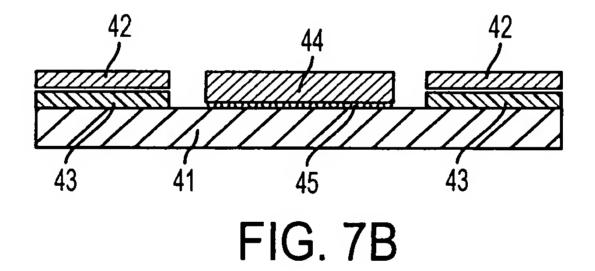


FIG. 7A



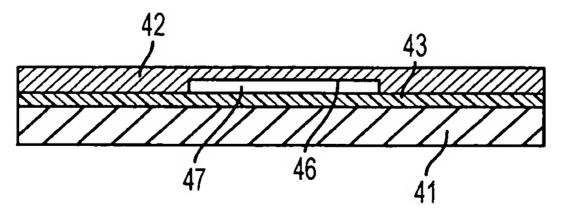


FIG. 7C

Motoaki MATSUDA
FLIP-CHIP BGA SEMICONDUCTOR DEVICE ...

U.S. Appln. No.: 10/659,379
Filed September 11, 2003
Group Art Unit: 2818
Atty. Docket No.: Q77402
Replacement Sheet 6 of 6

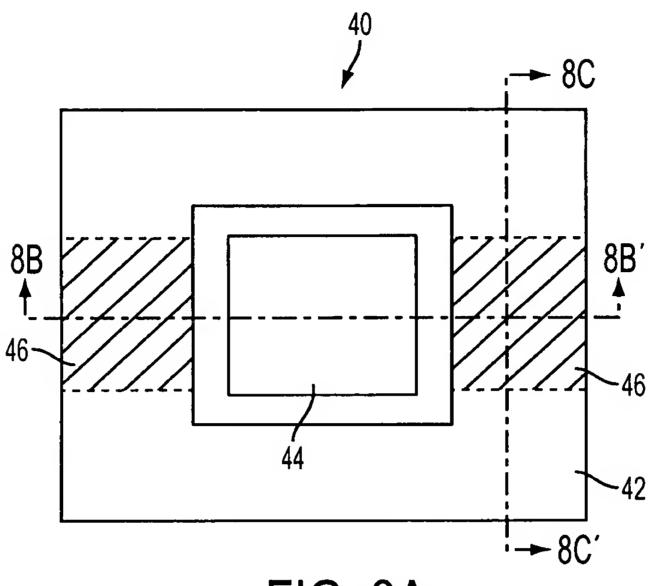


FIG. 8A

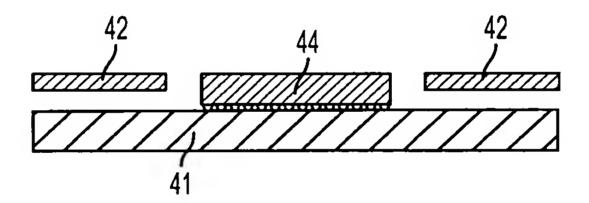


FIG. 8B

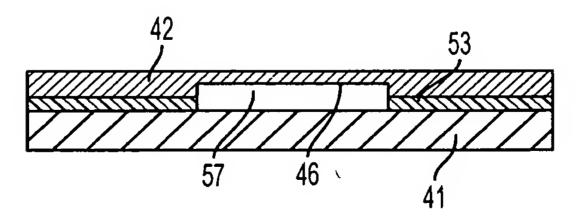


FIG. 8C